QP CODE: 24026903

24026903

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS) REGULAR / IMPROVEMENT / REAPPEARANCE EXAMINATIONS, OCTOBER 2024

Third Semester

B.Sc Bioinformatics Model III

CORE COURSE - BI3CRT09 - BASIC INSTRUMENTATION

2017 Admission Onwards

D82BDA86

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Objective lens.
2. Resolving power.
3. Annular diaphragm.
4. Comment on atomic absorption.
5. Beer lambert's law.
6. Applications of ESR spectroscopy.
7. Whatman No.1 filter paper.
8. TLC.
9. Anion exchanger.
10. Comment on High Preformance Liquid Chromatography.
11. Principle of centrifugation.
12. High speed centrifuge.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Comment on bright field and dark field microscopes.

14. Mention about transmission electro microscopy with neat diagram.

15. Explain the working of SEM.

16. Comment on ultra violet visible spectroscopy.

17. Comment on double beam infrared spectrometer.

18. Comment on optical system of fluorescent spectrometer.

19. Comment on Desktop centrifuge.

20. Write a note on preparatory centrifugation.

21. Describe the structure of analytical ultracentrifuge.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Give detail account on fluorescence microscopy.

23. Describe the principle, working and applications of NMR.

24. Give a detailed account on Gas chromatography.

25. Explain the principle, working and applications of 2-DE.

(2×15=30)